**Specifications**

**# Relays & Contact Type:** One (1) SPDT Continuous Duty Coil

**Expected Relay Life:** 10 million cycles minimum mechanical

**Operating Temperature:** -30 to 140°F

**Humidity Range:** 5 to 95% (noncondensing)

**Polarity:** Network is polarity sensitive

**Baud Rate:** 9600, 19200, 38400, 57600, 76800, 115200 (DIP Switch Selectable)

**Contact Ratings:**
- 20 Amp Resistive @ 277 Vac
- 20 Amp Ballast @ 277 Vac
- 16 Amp Electronic Ballast @ 277 Vac (N/O)
- 10 Amp Tungsten @ 120 Vac (N/O)
- 1110 VA Pilot Duty @ 277 Vac
- 770 VA Pilot Duty @ 120 Vac
- 2 HP @ 277 Vac
- 1 HP @ 120 Vac

**Power Input Ratings:**
- 81 mA @ 24 Vdc
- 111 mA @ 24 Vdc

**Notes:**
- Order NEMA 4 housing by adding “-N4” to end of model number. (RIBTW24B-BCAI-N4)
- For all versions, raw analog default settings are 0 and 1023 (real), respectively. Units default to 95 (no units).
- When connecting 24 Vac to both the RIB(s) and a half-wave device, damage to device can occur.
- Option 1: Use separate transformers for each device.
- Option 2: Add diode between devices, see Option 2 note below. ^^

**BAConet® Details:**
- This model utilizes: B0 1 (Relay output), B1 1 (Dry contact binary input), B2 1 (Dry contact binary input), AI 1 (Analog input)
- Device Instance changed via Object Identifier Property of Device Object
- See MS/TP Address Settings on Bulletin B2028.

**Thermistor Specifications:**
- Thermistor Type 2 (T2) Precon 10 K @ 77°F (25°C)
- PN ST-R24, Model 24, (or equivalent.) Thermistor Type 3 (T3) Precon 10 K @ 77°F (25°C) Model 3, (or equivalent.)
- Thermistor not included.
- For both T2 and T3, MIN_PRESS_VAL must be set to -36 (real value) and MAX_PRESS_VAL must be set to 66.3 (real value) for Celsius.
- For Fahrenheit, MIN_PRESS_VAL must be set to -32.8 (real value) and MAX_PRESS_VAL must be set to 151.34 (real value).
- .35 to 10° range in 1° steps / 31 to 50°F range in 1.8° steps
- 10 to 32° range in 0.1° steps / 50 to 90°F range in 0.18° steps
- 32 to 100° range in 1° steps / 90 to 212°F range in 1.8° steps

**Network Communication:**
- Green LED
- Relay Status
- Pink LED = BI 1 Status
- Red LED = BI 2 Status
- Green LED = Network Status

**Contact Switches:**
- 0 = Open; 1 = Closed
- **Device must be powered for override**

**Relay Override Switch:**
- DIP Switch Control

**Terminations:**
- Functional Devices product installed at both ends of the MS/TP network – Use recommended interconnection between devices. Band on diode faces towards RIB(s).

**RIBMN24B-BCAI**

2.75” Track Mount BACnet® MS/TP Network Relay Device; One Binary Input (20 Amp Relay SPDT + Override); Two Binary Inputs (Dry Contact, Class 2); One Analog Input (T2/T3 Thermistor / 0-5 Vdc / 0-10 Vdc); 24 Vac/dc Power Input; Optional End of Line Resistor (EOL) Included.

**RIBTW24B-BCAI**

Enclosed BACnet® MS/TP Network Relay Device; One Binary Input (20 Amp Relay SPDT + Override); Two Binary Inputs (Dry Contact, Class 2); One Analog Input (T2/T3 Thermistor / 0-5 Vdc / 0-10 Vdc); 24 Vac/dc Power Input; Optional End of Line Resistor (EOL) Included.